

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
8 January 2004 (08.01.2004)

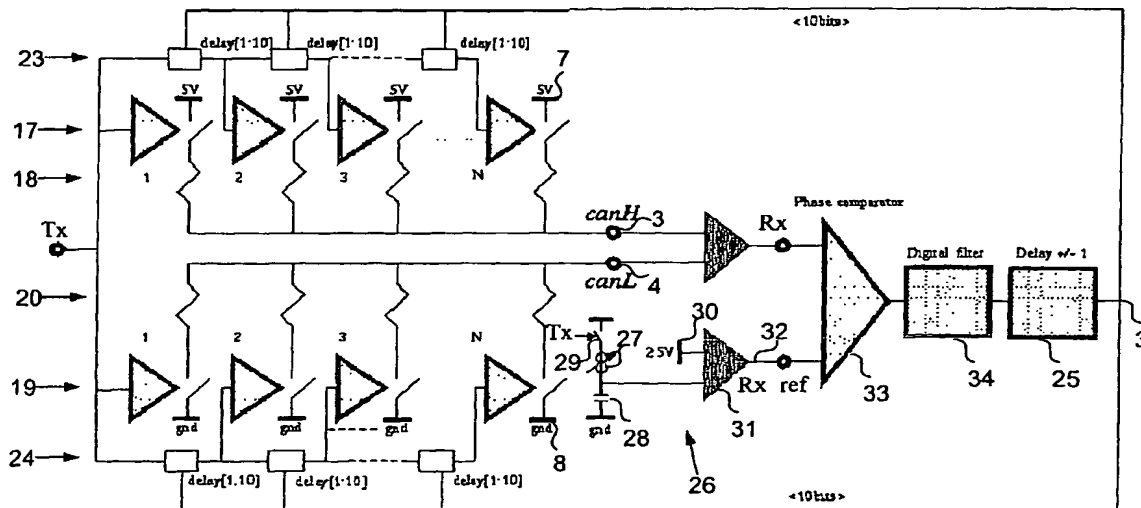
PCT

(10) International Publication Number
WO 2004/004259 A1

- (51) International Patent Classification⁷: **H04L 25/02**
- (74) Agent: MCCORMACK, Derek; Motorola European Intellectual, Property Operations, Midpoint, Alencon Link, Basingstoke, Hampshire RG21 7PL (GB).
- (21) International Application Number:
PCT/EP2003/006116
- (22) International Filing Date: 10 June 2003 (10.06.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
02291606.8 28 June 2002 (28.06.2002) EP
- (71) Applicant (for all designated States except US): **MOTOROLA INC** [US/US]; 1303 E.Algonquin Road, Schaumburg, IL 60196 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **LANCE, Philippe** [FR/FR]; Motorola S.A., Avenue du General Eisenhower, Boîte postale 1029, F-31023 Toulouse (FR).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report

[Continued on next page]

(54) Title: COMMUNICATION APPARATUS INCLUDING DRIVER MEANS FOR APPLYING A SWITCHED SIGNAL TO A COMMUNICATION LINE WITH A CONTROLLED SLEW RATE



(57) Abstract: A communication node including drivers (5,6) for applying a switched signal to a communication line (3,4) such as a CAN bus or a LIN bus, with a controlled slew rate. The driver (5,6) comprises a series of transfer elements (18,20) and a series of delay elements (17,19) for cumulatively establishing operational connections of the transfer elements with the communication line, whereby to apply the switched signal progressively to the communication line. A feedback loop (25,26) is responsive to the signal that the driver (5,6) applied to the communication line (3,4) for controlling the delays of the delay elements (23,24) so as to control the delays with which the operational connections of the transfer elements (18,20) with the communication line are established.